

wherein R₁, R₂, R₃, R₄, R₅, R₆ and R₇ may be the same or different and may be alkyl, cycloalkyl or aryl; R₇ may also be -(CH₂)_mCF₃; m is an integer from 0 to 20, and n is an integer from 1 to 5,000;

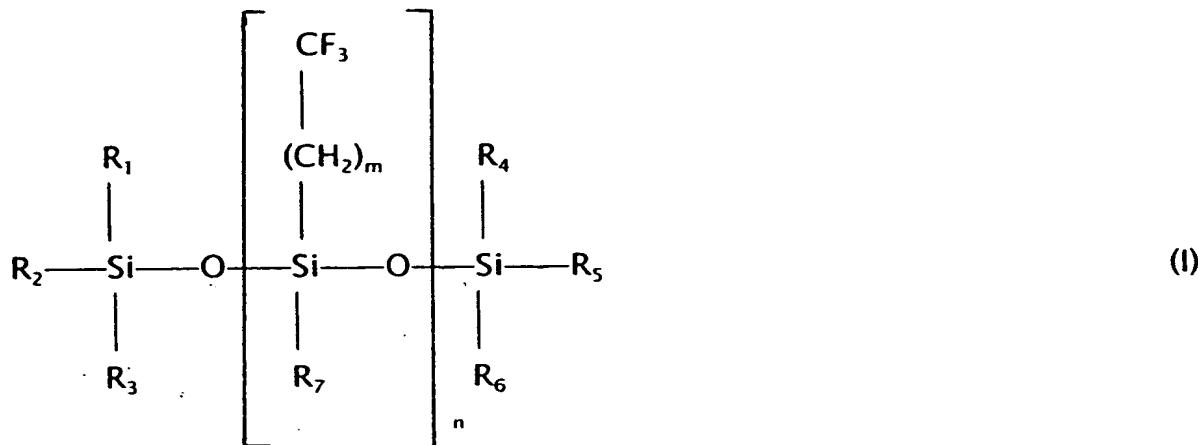
a copolymer of said polyfluoroalkylsiloxane with an alkyl, aryl or alkyl-aryl-siloxane, or a silanol terminated derivative of said polyfluoro-alkylsiloxane.

3. (Amended) A mixture according to claim 1 wherein each of said alkyl groups are methyl, ethyl, propyl, butyl, octyl or dodecyl.

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4. (Amended) A method of forming a composition of matter comprising a cross-linked thermoset resin and from about 0.01 to 5%, by weight of an additive comprising a polyfluoroalkylsiloxane, said additive having a lower surface energy than that of said resin; said method comprising intimately admixing with a cross-linkable thermosetting resin providing composition (I) a polyfluoroalkylsiloxane having the formula:



Claim 2

wherein R₁, R₂, R₃, R₄, R₅, R₆ and R₇ may be the same or different and may be alkyl, cycloalkyl or aryl; R₇ may also be -(CH₂)_m-CF₃; m is an integer from 0 to 20, and n is an integer from 1 to 5,000;

a silanol terminated derivative of said polyfluoroalkylsiloxane or a copolymer of said polyfluoroalkylsiloxane or a copolymer of said poly-fluoroalkylsiloxane with an alkyl, aryl or alkyl-aryl-siloxane;

a copolymer of said polyfluoroalkylsiloxane with an alkyl, aryl or alkyl-aryl-siloxane, or a silanol terminated derivative of said polyfluoro-alkylsiloxane.

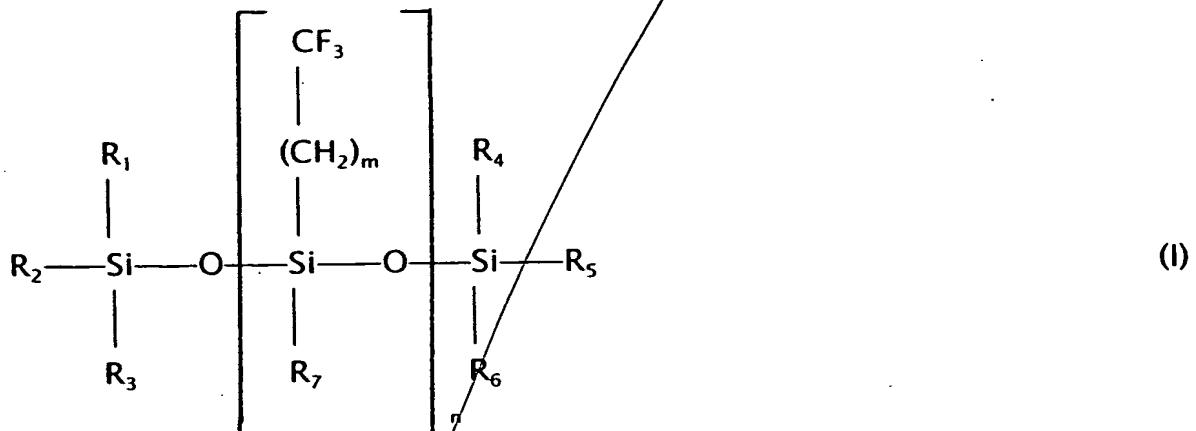
Claim 3

6. (Amended) A method according to claim 4 wherein each of said alkyl groups are methyl, ethyl, propyl, butyl, octyl or dodecyl.

Claim 4

9. (Amended) A composition according to claim 8 wherein each of said alkyl groups are methyl, ethyl, propyl, butyl, octyl or dodecyl.

11. (Amended) A composition of matter comprising (1) a cross-linked thermoset resin and (2) from about 0.01 to 5%, by weight, based on total weight of the composition of a polyfluoroalkylsiloxane having the formula:



wherein R_1 , R_2 , R_3 , R_4 , R_5 , R_6 and R_7 may be the same or different and may be alkyl, cycloalkyl or aryl; R_7 may also be $-(\text{CH}_2)-\text{mCF}_3$, m is an integer from 0 to 20, and n is an integer from 1 to 5,000;

a silanol terminated derivative of said polyfluoroalkylsiloxane or a copolymer of said polyfluoroalkylsiloxane or a copolymer of said polyfluoro-alkylsiloxane with an alkyl, aryl or alkyl-aryl-siloxane;

a copolymer of said polyfluoroalkylsiloxane with an alkyl, aryl or alkyl-aryl-siloxane, or a silanol terminated derivative of said polyfluoro-alkylsiloxane.

12. (Amended) A composition according to claim 11 wherein each of said alkyl groups are methyl, ethyl, propyl, butyl, octyl or dodecyl.